

STEAM TABLES

GAUGE PRESSURE kPa	ABSOLUTE PRESSURE kPa	TEMPERATURE °C	WATER (hf) (SENSIBLE HEAT) kJ/kg	SPECIFIC ENTHALPY EVAPORATION (hf _g) (LATENT HEAT) kJ/kg	STEAM (hg) (TOTAL HEAT) kJ/kg	SPECIFIC VOLUME STEAM m ³ /kg
	5.0	32.88	137.82	2423.7	2561.5	28.192
	10.0	45.81	191.83	2392.8	2584.7	14.674
	15.0	53.97	225.94	2373.1	2599.1	10.022
	20.0	60.06	251.40	2358.3	2609.7	7.649
	25.0	64.97	271.93	2346.3	2618.2	6.204
	30.0	69.10	289.23	2336.1	2625.3	5.229
	35.0	72.70	304.30	2327.2	2631.5	4.530
	40.0	75.87	317.58	2319.2	2636.8	3.993
	45.0	78.70	329.67	2312.0	2641.7	3.580
	50.0	81.33	340.49	2305.4	2645.9	3.240
	55.0	83.72	350.54	2299.3	2649.8	2.964
	60.0	85.94	359.86	2293.6	2653.5	2.732
	65.0	88.01	368.54	2288.3	2656.9	2.535
	70.0	89.95	376.70	2283.3	2660.0	2.365
	75.0	91.78	384.39	2278.6	2663.0	2.217
	80.0	93.50	391.66	2274.1	2665.8	2.087
	85.0	95.14	398.57	2269.8	2668.4	1.972
	90.0	96.71	405.15	2265.7	2670.9	1.869
	95.0	98.20	411.43	2261.8	2673.2	1.777
	100.0	99.63	417.46	2258.0	2675.5	1.694
0	101.3	100.00	419.04	2257.0	2676.0	1.673
5.0	106.3	101.40	424.90	2253.3	2678.2	1.601
10.0	111.3	102.66	430.20	2250.2	2680.4	1.533
15.0	116.3	103.87	435.60	2246.7	2682.3	1.471
20.0	121.3	105.10	440.80	2243.4	2684.2	1.414
25.0	126.3	106.26	445.70	2240.3	2686.0	1.361
30.0	131.3	107.39	450.40	2237.2	2687.6	1.312
35.0	136.3	108.50	455.20	2234.1	2689.3	1.268
40.0	141.3	109.55	459.70	2231.3	2691.0	1.225
45.0	146.3	110.58	464.10	2228.4	2692.5	1.186
50.0	151.3	111.61	468.30	2225.6	2693.9	1.149
55.0	156.3	112.60	472.40	2223.1	2695.5	1.115
60.0	161.3	113.56	476.40	2220.4	2696.8	1.083
65.0	166.3	114.51	480.20	2217.9	2698.1	1.051
70.0	171.3	115.40	484.10	2215.4	2699.5	1.024
75.0	176.3	116.28	487.90	2213.0	2700.9	0.997
80.0	181.3	117.14	491.60	2210.5	2702.1	0.971
85.0	186.3	117.96	495.10	2208.3	2703.4	0.946
90.0	191.3	118.80	498.90	2205.6	2704.5	0.923
95.0	196.3	119.63	502.20	2203.5	2705.7	0.901
100.0	201.3	120.42	505.70	2201.1	2706.7	0.881
105.0	206.3	121.21	508.90	2199.1	2708.0	0.860
110.0	211.3	121.96	512.20	2197.0	2709.2	0.841
115.0	216.3	122.73	515.40	2195.0	2710.4	0.823
120.0	221.3	123.46	518.70	2192.8	2711.5	0.806
125.0	226.3	124.18	521.60	2190.7	2712.3	0.788
130.0	231.3	124.90	524.60	2188.7	2713.3	0.773
135.0	236.3	125.59	527.60	2186.7	2714.3	0.757
140.0	241.3	126.28	530.50	2184.8	2715.3	0.743
145.0	246.3	126.96	533.30	2182.9	2716.2	0.728
150.0	251.3	127.62	536.10	2181.0	2717.1	0.714
155.0	256.3	128.26	538.90	2179.1	2718.0	0.701
160.0	261.3	128.89	541.60	2177.3	2718.9	0.689
165.0	266.3	129.51	544.40	2175.5	2719.9	0.677
170.0	271.3	130.13	547.10	2173.7	2720.8	0.665
175.0	276.3	130.75	549.70	2171.9	2721.6	0.654
180.0	281.3	131.37	552.30	2170.1	2722.4	0.643
185.0	286.3	131.96	554.80	2168.3	2723.1	0.632

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190.0	291.3	132.54	557.3	2166.7	2724.0	0.622
195.0	296.3	133.13	559.8	2165.0	2724.8	0.612
200.0	301.3	133.69	562.2	2163.3	2725.5	0.603
205.0	306.3	134.25	564.6	2161.7	2726.3	0.594
210.0	311.3	134.82	567.0	2160.1	2727.1	0.585
215.0	316.3	135.36	569.5	2158.5	2727.9	0.576
220.0	321.3	135.88	571.7	2156.9	2728.6	0.568
225.0	326.3	136.43	574.0	2155.3	2729.3	0.560
230.0	331.3	136.98	576.3	2153.7	2730.0	0.552
235.0	336.3	137.50	578.5	2152.2	2730.7	0.544
240.0	341.3	138.01	580.7	2150.7	2731.4	0.536
245.0	346.3	138.53	582.8	2149.2	2732.0	0.529
250.0	351.3	139.02	585.0	2147.6	2732.6	0.522
255.0	356.3	139.52	586.9	2146.3	2733.2	0.515
260.0	361.3	140.00	589.2	2144.7	2733.9	0.509
265.0	366.3	140.48	591.3	2143.3	2734.6	0.502
270.0	371.3	140.96	593.3	2141.9	2735.2	0.496
275.0	376.3	141.44	595.3	2140.5	2735.8	0.489
280.0	381.3	141.92	597.4	2139.0	2736.4	0.483
285.0	386.3	142.40	599.4	2137.6	2737.0	0.477
290.0	391.3	142.86	601.4	2136.1	2737.5	0.471
295.0	396.3	143.28	603.3	2134.8	2738.1	0.466
300.0	401.3	143.75	605.3	2133.4	2738.7	0.461
310.0	411.3	144.67	609.1	2130.7	2739.8	0.451
320.0	421.3	145.46	612.9	2128.1	2741.0	0.440
330.0	431.3	146.36	616.4	2125.5	2741.9	0.431
340.0	441.3	147.20	620.0	2122.9	2742.9	0.422
350.0	451.3	148.02	623.6	2120.3	2743.9	0.413
360.0	461.3	148.84	627.1	2117.8	2744.9	0.405
370.0	471.3	149.64	630.6	2115.3	2745.9	0.396
380.0	481.3	150.44	634.0	2112.9	2746.9	0.389
390.0	491.3	151.23	637.3	2110.5	2747.8	0.381
400.0	501.3	151.96	640.7	2108.1	2748.8	0.374
410.0	511.3	152.68	643.9	2105.7	2749.8	0.367
420.0	521.3	153.40	657.1	2103.5	2750.6	0.361
430.0	531.3	154.12	650.2	2101.2	2751.4	0.355
440.0	541.3	154.84	653.3	2098.9	2752.2	0.348
450.0	551.3	155.55	656.3	2096.7	2753.0	0.342
460.0	561.3	156.24	659.3	2094.5	2753.8	0.336
470.0	571.3	156.94	662.3	2092.3	2754.6	0.330
480.0	581.3	157.62	665.2	2090.2	2755.4	0.325
490.0	591.3	158.28	668.1	2088.1	2756.2	0.320
500.0	601.3	158.92	670.9	2086.0	2756.9	0.315
510.0	611.3	159.56	673.7	2083.9	2757.6	0.310
520.0	621.3	160.20	676.5	2081.8	2758.3	0.305
530.0	631.3	160.82	679.2	2079.8	2759.0	0.301
540.0	641.3	161.45	681.9	2077.8	2759.7	0.296
550.0	651.3	162.08	684.6	2075.7	2760.3	0.292
560.0	661.3	162.68	687.2	2073.8	2761.0	0.288
570.0	671.3	163.27	689.8	2071.8	2761.6	0.284
580.0	681.3	163.86	692.4	2069.9	2762.3	0.280
590.0	691.3	164.46	695.0	2067.9	2762.9	0.276
600.0	701.3	165.04	697.5	2066.0	2763.5	0.272
610.0	711.3	165.60	700.0	2064.1	2764.1	0.269
620.0	721.3	166.16	702.5	2062.3	2764.8	0.265
630.0	731.3	166.73	705.0	2060.4	2765.4	0.261
640.0	741.3	167.29	707.4	2058.6	2766.0	0.258
650.0	751.3	167.83	709.7	2056.8	2766.5	0.255

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660.0	761.3	168.38	712.1	2055.0	2767.1	0.252
670.0	771.3	168.89	714.5	2053.1	2767.6	0.249
680.0	781.3	169.53	716.8	2051.3	2768.1	0.246
690.0	791.3	169.95	719.1	2049.5	2768.6	0.243
700.0	801.3	170.50	721.4	2047.7	2769.1	0.240
710.0	811.3	171.02	723.6	2046.1	2769.7	0.237
720.0	821.3	171.53	725.9	2044.3	2770.2	0.235
730.0	831.3	172.03	728.1	2042.6	2770.7	0.232
740.0	841.3	172.53	730.4	2040.8	2771.2	0.229
750.0	851.3	173.02	732.5	2039.2	2771.7	0.227
760.0	861.3	173.50	734.7	2037.5	2772.2	0.224
770.0	871.3	174.00	736.8	2035.9	2772.7	0.222
780.0	881.3	174.46	738.9	2034.2	2773.1	0.219
790.0	891.3	174.93	741.0	2032.6	2773.6	0.217
800.0	901.3	175.43	743.1	2030.9	2774.0	0.215
810.0	911.3	175.88	745.2	2029.3	2774.5	0.212
820.0	921.3	176.37	747.2	2027.6	2774.8	0.210
830.0	931.3	176.83	749.3	2027.6	2775.4	0.208
840.0	941.3	177.27	751.3	2024.5	2775.8	0.206
850.0	951.3	177.75	753.3	2022.9	2776.2	0.204
860.0	961.3	178.20	755.3	2021.3	2776.6	0.202
870.0	971.3	178.64	757.2	2019.7	2776.9	0.200
880.0	981.3	179.08	759.2	2018.2	2777.4	0.198
890.0	991.3	179.53	761.1	2016.6	2777.7	0.196
900.0	1001.3	179.97	763.0	2015.1	2778.1	0.194
910.0	1011.3	180.41	765.0	2013.5	2778.5	0.192
920.0	1021.3	180.83	766.9	2012.9	2778.9	0.191
930.0	1031.3	181.26	768.7	2010.5	2779.2	0.189
940.0	1041.0	181.68	770.6	2009.0	2779.6	0.187
950.0	1051.3	182.10	772.5	2007.5	2780.0	0.185
960.0	1061.3	182.51	774.4	2006.0	2780.4	0.184
970.0	1071.3	182.91	776.2	2004.5	2780.7	0.182
980.0	1081.3	183.31	778.0	2003.1	2781.1	0.181
990.0	1091.3	183.72	779.8	2001.6	2781.4	0.179
1000.0	1101.3	184.13	781.6	2000.1	2781.7	0.177
1020.0	1121.3	184.92	785.1	1997.3	2782.4	0.174
1040.0	1141.3	185.68	788.6	1994.4	2783.0	0.172
1060.0	1161.3	186.49	792.1	1991.6	2783.7	0.169
1080.0	1181.3	187.25	795.5	1988.8	2784.3	0.166
1100.0	1201.3	188.02	798.8	1986.0	2784.8	0.163
1120.0	1221.3	188.78	802.3	1983.2	2785.5	0.161
1140.0	1241.3	189.52	805.5	1980.5	2786.0	0.158
1160.0	1261.3	190.24	808.8	1977.8	2786.6	0.156
1180.0	1281.3	190.97	812.0	1975.1	2787.1	0.153
1200.0	1301.3	191.68	815.1	1972.5	2787.6	0.151
1220.0	1321.3	192.38	818.3	1969.9	2788.2	0.149
1240.0	1341.3	193.08	821.4	1967.2	2788.6	0.147
1260.0	1361.3	193.77	824.5	1964.6	2789.1	0.145
1280.0	1381.3	194.43	827.5	1962.1	2789.6	0.143
1300.0	1401.3	195.10	830.4	1959.6	2790.0	0.141
1320.0	1421.3	195.77	833.4	1957.1	2790.5	0.139
1340.0	1441.3	196.43	836.4	1954.5	2791.0	0.137
1360.0	1461.3	197.08	839.3	1952.0	2791.3	0.135
1380.0	1481.3	197.72	842.2	1949.6	2791.8	0.133
1400.0	1501.3	198.35	845.1	1947.1	2792.2	0.132
1420.0	1521.3	198.98	848.0	1944.6	2792.6	0.130
1440.0	1541.3	199.61	850.7	1942.3	2793.0	0.128
1460.0	1561.3	200.23	853.5	1939.8	2793.3	0.127

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1480.0	1581.3	200.84	856.3	1937.4	2793.7	0.1250
1500.0	1601.3	201.45	859.0	1935.0	2794.0	0.1240
1520.0	1621.3	202.04	861.7	1932.7	2794.4	0.1220
1540.0	1641.3	202.62	864.4	1930.4	2794.8	0.1210
1560.0	1661.3	203.21	867.1	1928.0	2795.1	0.1190
1580.0	1681.3	203.79	869.7	1925.7	2795.4	0.1180
1600.0	1701.3	204.38	872.3	1923.4	2795.7	0.1170
1620.0	1721.3	204.94	874.9	1921.2	2796.1	0.1150
1640.0	1741.3	205.49	877.5	1918.9	2796.4	0.1140
1660.0	1761.3	206.05	880.0	1916.7	2796.7	0.1130
1680.0	1781.3	206.61	882.5	1914.4	2796.9	0.1110
1700.0	1801.3	207.17	885.0	1912.1	2797.1	0.1100
1720.0	1821.3	207.75	887.5	1909.9	2797.4	0.1090
1740.0	1841.3	208.30	889.9	1907.7	2797.6	0.1080
1760.0	1861.3	208.84	892.4	1905.5	2797.9	0.1070
1780.0	1881.3	209.37	894.8	1903.4	2798.2	0.1060
1800.0	1901.3	209.90	897.2	1901.3	2798.5	0.1050
1820.0	1921.3	210.43	899.6	1899.1	2798.7	0.1040
1840.0	1941.3	210.96	902.0	1896.9	2798.9	0.1030
1860.0	1961.3	211.47	904.3	1894.8	2799.1	0.1020
1880.0	1981.3	211.98	906.7	1892.6	2799.3	0.1010
1900.0	2001.3	212.47	909.0	1890.5	2799.5	0.1000
1920.0	2021.3	212.98	911.3	1888.4	2799.7	0.0986
1940.0	2041.3	213.49	913.6	1886.3	2799.9	0.0976
1960.0	2061.3	213.99	915.8	1884.3	2800.1	0.0967
1980.0	2081.3	214.48	918.1	1882.2	2800.3	0.0958
2000.0	2101.3	214.96	920.3	1880.2	2800.5	0.0949
2050.0	2151.3	216.15	925.8	1875.1	2800.9	0.0927
2100.0	2201.3	217.35	931.3	1870.1	2801.4	0.0906
2150.0	2251.3	218.53	936.6	1865.1	2801.7	0.0887
2200.0	2301.3	219.65	941.9	1860.1	2802.0	0.0868
2250.0	2351.3	220.76	947.1	1855.3	2802.4	0.0894
2300.0	2401.3	221.85	952.2	1850.4	2802.6	0.0832
2350.0	2451.3	222.94	957.3	1845.6	2802.9	0.0815
2400.0	2501.3	224.02	962.2	1840.9	2803.1	0.0797
2450.0	2551.3	225.08	967.2	1836.1	2803.3	0.0783
2500.0	2601.3	226.12	972.1	1831.4	2803.5	0.0768
2600.0	2701.3	228.15	981.6	1822.2	2803.8	0.0740
2700.0	2801.0	230.14	990.7	1813.3	2804.0	0.0714
2800.0	2901.3	232.05	999.7	1804.4	2804.1	0.0689
2900.0	3001.3	233.93	1008.6	1795.6	2804.2	0.0666
3000.0	3101.3	235.78	1017.1	1787.0	2804.1	0.0645
3100.0	3201.3	237.55	1025.6	1778.5	2804.1	0.0625
3200.0	3301.0	239.28	1033.9	1770.0	2803.9	0.0605
3300.0	3401.3	240.97	1041.9	1761.8	2803.7	0.0587
3400.0	3501.3	242.63	1049.7	1753.8	2803.5	0.0571
3500.0	3601.3	244.26	1057.7	1745.5	2803.2	0.0554
3600.0	3701.0	245.86	1065.7	1737.2	2802.9	0.0539
3700.0	3801.3	247.42	1072.9	1729.5	2802.4	0.0524
3800.0	3901.3	248.95	1080.3	1721.6	2801.9	0.0510
3900.0	4001.3	250.42	1087.4	1714.1	2801.5	0.0498
4000.0	4101.3	251.94	1094.6	1706.3	2800.9	0.0485
4200.0	4301.3	254.74	1108.6	1691.2	2799.8	0.0461
4400.0	4501.3	257.50	1122.1	1676.2	2798.3	0.0441
4600.0	4701.3	260.13	1135.3	1661.6	2796.9	0.0421
4800.0	4901.3	262.73	1148.1	1647.1	2795.2	0.0403
5000.0	5101.3	265.26	1160.8	1632.8	2793.6	0.0386